

Smart Schools Investment Plan - 2016-17 Version (Original) - PCSD_01

SSIP Overview

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Institution ID

80000051324

1. Please enter the name of the person to contact regarding this submission.

Phillip Gogol

1a. Please enter their phone number for follow up questions.

315-826-7900 x229

1b. Please enter their e-mail address for follow up contact.

pgogol@polandcsd.org

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.

First submission

3. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department. **By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.** District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.

By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

- Parents
- Teachers
- Students
- Community members

4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

- Yes
- No
- N/A

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5. **Certify that the following required steps have taken place by checking the boxes below: *Each box must be checked prior to submitting your Smart Schools Investment Plan.***

- The district developed and the school board approved a preliminary Smart Schools Investment Plan.
- The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
- The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occurred as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
- The district prepared a final plan for school board approval and such plan has been approved by the school board.
- The final proposed plan that has been submitted has been posted on the district's website.

5a. **Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.**

PCSD Smart Bond 2018.pdf
Smart_Schools_Projects_SED.pdf

5b. **Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.**

<https://www.polandcs.org/Page/1972>

6. **Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.**

700

7. **An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.**

- The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

8. **Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.**

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

9. **Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.**

(No Response)

10. **Your district's Smart Schools Bond Act Allocation is:**

\$571,122

11. **Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not**

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budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is \$0, you will not be required to complete that survey question.

	Sub-Allocations
School Connectivity	228,571
Connectivity Projects for Communities	0
Classroom Technology	0
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	228,571

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1. **In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that:**

- sufficient infrastructure that meets the Federal Communications Commission’s 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or
- **is a planned use of a portion of Smart Schools Bond Act funds, or**
- **is under development through another funding source.**

Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:

1. **Specifically codified in a service contract with a provider, and**
2. **Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.**

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

Our district already meets the necessary requirements for connectivity, however, have an outdated and aging network infrastructure. With the Smart Bond funds being allocated towards purchasing new equipment for our network closets and wireless access points throughout the district we can better provide equal access to internal and external services and better support all of our student devices (both district owned and student owned BYOD). We currently have roughly 600 students and operate at 3GB speeds, however, do experience frequent bottle-necking with traffic due to outdated infrastructure which sometimes interferes with web-based products such as STAR Testing.

- 1a. **If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.**

By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. **Connectivity Speed Calculator (Required)**

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	600	60,000	60	3000	3000	n/a

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- 3. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings.

We will upgrade our wired and wireless infrastructure throughout the entire district. We have 7 closets all in need of upgrades due to age of equipment. This upgrade will effect every single user on campus. Poland CSD is also implementing distance learning classes that are 100% reliant upon high speed internet connections for video streaming. Our district has also recently become 1:1 for grades K-12 with iPads and Chromebooks and have been piloting New York State computer based testing initiatives.

- 4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?")

Our push to become a 1:1 district is very important and reflected in our Technology Plans as we hope to achieve equal access to technology for all students. By putting a device in each student's hands we provide them hands on 21st century learning skills and provide access to such devices that many students simply would not normally have access to at home. This 1:1 initiative is primarily to close the digital gap in our community especially with low income families who aren't able to afford technology in many instances.

- 5. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.

Please describe how you have quantified this demand and how you plan to meet this demand.

We currently have 46 wireless access points spread throughout the district, however, there are many weak or dead spots due to lack of enough access points to properly ensure quality wireless signals are achieved in all learning spaces. We wish to install new wireless access points in each and every classroom so we can properly support the growing number of student devices. The number of wireless access points to be purchased will be enough to support all learning spaces and office spaces within the district.

- 6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects.

Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
21-11-03-04-0-002-BA1

- 7. Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.

Was your project deemed eligible for streamlined review?

Yes

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- 7a. Districts that choose the Streamlined Review Process will be required to certify that they have reviewed all installations with their licensed architect or engineer of record and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.

I certify that I have reviewed all installations with a licensed architect or engineer of record.

- 8. Include the name and license number of the architect or engineer of record.

Name	License Number
March Associates	22954

- 9. If you are submitting an allocation for School Connectivity complete this table.

Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Network/Access Costs	169,345
Outside Plant Costs	0
School Internal Connections and Components	52,826
Professional Services	6,400
Testing	0
Other Upfront Costs	0
Other Costs	0
Totals:	228,571

- 10. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be eligible for tax-exempt financing to be reimbursed through the SSBA. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through smartschools@nysed.gov.

NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.

Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	Meraki MR52 Cloud Managed AP	62	932	57,784
Connections/Components	Meraki MR Enterprise License, 5 Years	62	170	10,540

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	Meraki MS425-16-HW: L3 Cld-Mngd 16x 10G SFP+ Switch	2	9,333	18,666
Connections/Components	Meraki MS425-16 Enterprise License 5 yr (1st year on Meraki)	2	936	1,872
Connections/Components	Meraki MA-CBL-40G-1M: 40GbE QSFP Cable, 1 meter	2	145	290
Connections/Components	Meraki MA-SFPp10GB-LRM: 10G Base LRM	12	678	8,136
Network/Access Costs	Meraki MS350-48FP-HW: Meraki MS350-48FP L3 Stck Cld-Mngd 48x GigE 740W PoE Switch	11	8,445	92,895
Connections/Components	LIC-MS350-48FP-5YR: Meraki MS350-48FP Enterprise License 5YR (First Year On Us)	8	847	6,776
Connections/Components	MA-CBL-TA-3M: Meraki 10 GbE Twinax Cable with SFP+ Modules, 3 Meters	2	108	216
Connections/Components	LIC-MS350-48FP-5YR:	3	847	2,541
Connections/Components	MA-SFP-10GB-LRM: Meraki 10G Base LRM	12	678	8,136
Professional Services	Carousel Industries Installation, Configuration & Project Management	1	6,400	6,400
Connections/Components	MS350-24P-HW: Meraki MS350-24P L3 Stck Cld-Mngd 24x GigE 370W PoE Switch	3	4,303	12,909
Connections/Components	LIC-MS350-24P-5YR: Meraki MS350-24P Enterprise License 5YR (First Year On Us)	3	470	1,410